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# Official Journal of the Plant Variety Protection Office

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U.S. Department of Agriculture  
Agricultural Marketing Service

## PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et. seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office  
Livestock, Poultry, Grain and Seed Division  
AMS, U. S. Department of Agriculture  
Room 205, National Agricultural Library Bldg.  
Beltsville, Maryland 20705

This issue covers the period from April 1, 1978, through June 30, 1978.

issued July 1978

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APPLICATIONS RECEIVED

KIND	APPL. NO.	APPL. DATE	VARIETY	NAME OF APPLICANT	
BEAN, GARDEN	7800056	780405	GOLDEN BUTTERWAX	AGWAY, INC.	
	7800058	780411	LANCER	ROGERS BROTHERS SEED CO.	
	7800078	780602	NZ 385	VAN WAVEREN PFLANZENZUCHT G.M.B.H.	(3)
BLUEGRASS, KENTUCKY *	7800069	780512	RAM I	BARBARA B. CURTIS	(3)
	7800071	780516	BARMEZZO	BARENBRUG HOLLAND N.V., NETH.	(3)
CAULIFLOWER	7800079	780602	ELGON	ROYAL SLUITS, NETH.	
	7800080	780602	NIMBA MEDA	ROYAL SLUITS, NETH.	
COTTON	7800068	780511	MCNAIR 235	MCNAIR SEED CO.	(3)
	7800073	780522	TAMCOT CAMD-E	TEXAS AGRIC. EXPT. STA.	(3)
	7800074	780522	TAMCOT SP21S	TEXAS AGRIC. EXPT. STA.	(3)
FESCUE, CHEWINGS	7800088	780619	PARITA	ZELDER B. V., NETH.	
	7800072	780516	BARUNDI	BARENBRUG HOLLAND N.V., NETH.	(3)
FESCUE, TALL	7800062	780424	BLANCO	QUALI-SEL, INC.	
	7800082	780605	AMARAL 78	PERMISSION TO PUBLISH NOT RECEIVED	
LETTUCE	7800083	780606	AMARAL 400	PERMISSION TO PUBLISH NOT RECEIVED	
	7800084	780606	MISSION	PERMISSION TO PUBLISH NOT RECEIVED	
	7800086	780612	DEEP RED	RAYMOND E. CARTASEGRA	
	7800089	780619	CALSWEET	PERMISSION TO PUBLISH NOT RECEIVED	
ONION	7800064	780508	EXCEL G	ASGROW SEED CO.	
PEA, GARDEN	7800059	780424	#9888 FREEZER	CANNERS SEED CORPORATION	
	7800060	780424	#9889 FREEZER	CANNERS SEED CORPORATION	
PEANUT	7800061	780424	#9901 CANNER	CANNERS SEED CORPORATION	
	7800063	780503	KEEL 76	JAMES T. KEEL	(3)
PUMPKIN	7800057	780405	LITTLE BOO	AGWAY, INC.	
RICE	7800067	780511	BIG MOON	PETOSEED CO., INC.	(1)
	7800076	780530	BELLEVEUE	ALEXANDRIA SEED CO., INC.	(3)
RYEGRASS, PERENNIAL *	7800070	780516	HARRY	BARENBRUG HOLLAND N.V., NETH.	
SAFFLOWER	7800075	780524	ARMI-6	AGRONOMIC RESEARCH & MARKETING INC	
	7800065	780510	CENTENNIAL	PERMISSION TO PUBLISH NOT RECEIVED	(3)
SOYBEAN	7800077	780602	CRAWFORD	KANSAS AGRIC. EXPT. STA.	(1)
	7800081	780605	AP 70	NORTH AMERICAN PLANT BREEDERS	
SQUASH	7800085	780606	HODGSON 78	MINNESOTA AGRIC. EXPT. STA.	
	7800066	780511	77-2169	CHARTER RESEARCH, INC.	

\*TO BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED

( ) No. of generations of certified seed permitted beyond breeder's seed.

# APPLICATIONS RECEIVED

KIND	APPL. NO.	APPL. DATE	VARIETY	NAME OF APPLICANT
WHEAT, COMMON	* 7800087	780619	TITAN	OHIO AGRIC. RES. DEV. CENTER (3)

## AMENDED APPLICATIONS

KIND	APPL. NO.	VARIETY	NAME OF APPLICANT
Clover, Red	* 7500032	RHA-I	Richard H. Arrington
Lettuce	7800089	Calsweet	Ferry-Morse Seed Company
Soybean	* 7800051	Gutwein 421	Soybean Research Foundation, Inc.(3)
	* 7800055	SRF 150P	Soybean Research Foundation, Inc.(3)
Sudangrass	7300012	EXCEL S235	Ring Around Products, Inc.
Wheat, Common	* 7500010	W-504	North American Plant Breeders (3)

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7600016	April 20, 1978	Canners Seed Corporation	Pea	#6060 Freezer
'#6060 Freezer' most closely resembles 'Early Frosty'; however, the pods of '#6060 Freezer' average 7.62 cm long and the dry seed color is 138C; whereas, the pods of 'Early Frosty' average 8.89 cm long and the dry seed color is 138D. (Color values of Royal Horticultural Society Colour Chart.)				
**7700093	April 20, 1978	Nebraska Agricultural Experiment Station	Wheat	Agate (3)
'Agate' most closely resembles 'Scout 66'; however, 'Agate' has long beaks, seedling resistance to stem rust races 15B-2 and 56, and is late maturing; whereas, 'Scout 66' has short beaks, seedling susceptibility to stem rust races 15B-2 and 56, and is moderately early maturing.				
7800014	April 20, 1978	Bruce Church, Inc.	Lettuce	Winter Supreme
'Winter Supreme' most closely resembles 'Climax'; however, 'Winter Supreme' is resistant to rusty brown discoloration (rusty rib) while 'Climax' is susceptible.				
7800017	April 20, 1978	Ardie G. Gustafson, Seedsman	Pea	Granada
'Granada' most closely resembles 'Scout'; however, 'Granada' matures 3 days earlier than 'Scout'.				
76TQ006	May 11, 1978	Ring Around Products, Inc.	Soybean	RA-501 A
'RA-501 A' most closely resembles 'Clark 63'; however, 'RA-501 A' is 12-15 days later in maturity and is resistant to soybean cyst nematode; whereas, 'Clark 63' is susceptible to soybean cyst nematode.				
7700021	May 11, 1978	Pacific Oilseeds Incorporated	Safflower	S-317
'S-317' is a high oleic acid type safflower. This type includes 'UC-84', 'Oleic Leed', and 'UC-1'. 'S-317' is resistant to Fusarium wilt while 'UC-1', 'UC-84', and 'Oleic Leed' are susceptible. 'S-317' is yellow flowered while 'UC-84' and 'Oleic Leed' have orange flowers. 'S-317' has smaller heads and is more extensively branched than 'UC-1'.				

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# CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7700027	May 11, 1978	Pacific Oilseeds Incorporated	Safflower	S-400
'S-400' most closely resembles 'Frio' and 'S-296'. 'S-400' and 'S-296' are resistant to Fusarium root rot while 'Frio' is not. 'S-400' is 2 days earlier and has 1.5 to 2.0 % higher seed oil content than 'S-296'.				
7700062	May 11, 1978	Land O'Lakes, Inc.	Soybean	MAX
'MAX' is most similar to 'Williams'. However, 'MAX' has purple flowers, purple hypocotyl and brown pods scattered on the plant; whereas, 'Williams' has white flowers, green hypocotyl and tan pods concentrated on the plant.				
7800018	May 11, 1978	Asgrow Seed Company	Soybean	'A5618'
'A5618' most closely resembles 'York'; however, seeds of 'A5618' have a low peroxidase level; whereas, seeds of 'York' have a high peroxidase level.				
7800043	May 11, 1978	Denholm Seeds	Marigold	Orange Boy
'Orange Boy' most closely resembles 'Petite Orange'; however, 'Orange Boy' blooms 3-4 days earlier and has larger, deeper orange flowers than 'Petite Orange'.				
7600014	May 18, 1978	Quali-Sel, Inc.	Lettuce	Gila
'Gila' most closely resembles 'Calmar'; however, 'Gila' reaches market maturity 3-5 days earlier and has a more blistered leaf surface than 'Calmar'.				
7700013	May 18, 1978	Northrup King Company	Red Clover	Florex
'Florex' most closely resembles 'Dollard', but 'Florex' is 2 days later in flowering date.				

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<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
**7700102	May 18, 1978	North Carolina Foundation Seed Producers, Inc.	Oat	Firecracker
'Firecracker' is considered most similar to 'Salem', but 'Firecracker' has yellow lemmas and lacks awns; whereas, 'Salem' has red lemmas and is characterized by twisted and subgeniculate awns of common occurrence.				
7700103	May 18, 1978	Rogers Brothers Seed Company	Bean	Vitagreen
'Vitagreen' is most similar to 'Early Gallatin'. 'Vitagreen' has pods with a blue-green hue while 'Early Gallatin' has pods with a yellow-green hue. 'Vitagreen' is resistant to Summer Death while 'Early Gallatin' is susceptible to Summer Death.				
7800036	May 18, 1978	W. Brotherton Seed Company, Inc.	Pea	Avon
'Avon' most closely resembles 'Puget'; however, 'Avon' matures 1-2 days later and is resistant to Fusarium wilt race 5; whereas, 'Puget' is susceptible.				
7800037	May 18, 1978	W. Brotherton Seed Company, Inc.	Pea	Quincy
'Quincy' most closely resembles 'Puget'; however, 'Quincy' has greatly reduced stipules, a vine height of 61 cm, an average seive size of 4.40 and is resistant to Fusarium wilt race 5. 'Puget' has normal stipules, a vine height of 71 cm, an average seive size of 3.80 and is susceptible to Fusarium wilt race 5. 'Quincy' also resembles 'Avon' but 'Quincy' matures 1-2 days later than 'Avon'.				
**7700095	June 22, 1978	North American Plant Breeders	Wheat	Hutch (3)
'Hutch' a semi-dwarf variety, most closely resembles 9 varieties. 'Hutch' can be differentiated from 6 of these in beak shape, since 'Hutch' has an acute beak; whereas, 'Baca', 'Centurk', 'Tam W-101', 'Satana', 'Wings', and 'Homestead' have acuminate beaks. Additionally, 'Hutch' has oblique glume shoulder shape; whereas, 'Sturdy' has square shoulders, and the shoulders of 'Trison' are rounded to square. 'Hutch' also has medium long glumes and middeep crease; whereas, 'Scout' has long glumes and a shallow crease.				

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate  
No.

Issue Date      Owner

Name of Kind

Name of Variety

7800030

June 22, 1978

Ring Around Products, Inc.

Soybean

RA-401

'RA-401' most nearly resembles 'Columbus'. 'RA-401' has grey pubescence and brown hila; whereas, 'Columbus' has brown pubescence and black hila.

7800031

June 22, 1978

Ring Around Products, Inc.

Soybean

RA-601

'RA-601' most closely resembles 'Mack'. 'RA-601' plants are 40 cm taller, 8 days later in maturity, and indeterminate vs determinate for 'Mack'.

7800038

June 22, 1978

W. Brotherton Seed Company, Inc.

Pea

Sussex

'Sussex' most closely resembles 'Nugget'; however, 'Sussex' has a vine height of 63 cm compared with 84 cm for 'Nugget'. 'Sussex' is also double and triple podded while 'Nugget' is double podded.

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7800039

June 22, 1978

W. Brotherton Seed Company, Inc.

Pea

Grant

'Grant' most closely resembles 'Puget' but differs in that 'Grant' is resistant to Fusarium wilt races 2 and 6 while 'Puget' is susceptible to both races.

7800044

June 22, 1978

Asgrow Seed Company

Pea

Andes

'Andes' most closely resembles 'Trojan'; however, 'Andes' is resistant to near wilt, powdery mildew and pea enation mosaic; whereas, 'Trojan' is susceptible to each of these diseases.

7800062

June 22, 1978

Quali-Sel, Inc.

Lettuce

Blanco

'Blanco' most closely resembles its parents 'Vanguard' and 'Calmar'. 'Blanco' differs from 'Vanguard' by having white seed while 'Vanguard' is black seeded. 'Blanco' differs from 'Calmar' in that it forms marketable heads with core height remaining at 7.6 cm during warm summer months in the Central Coastal California valleys while 'Calmar' produces over size, puffy heads with core heights exceeding 13 cm and some heads bolting during the same period.

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<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7700080	June 22, 1978	Ferry-Morse Seed Company	Bean	Golden Rod
'Golden Rod' most closely resembles the variety 'Sungold'. 'Golden Rod is distinct from 'Sungold' by having approximately 1 cm longer pod and 1 mm longer seed.				

## AMENDED CERTIFICATES

<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7500068		W. Brotherton Seed Co., Inc.	Pea	Dane
7700060		Royal Sluis, Neth.	Bean	Bef
7700061		Royal Sluis, Neth.	Bean	Skil

## GENERAL INFORMATION

### Descriptions of New Varieties

In accordance with section 180.00 of the Plant Variety Protection Regulations and Rules of Practice which states: "Voluntary submission of variety descriptions of "public varieties" on forms obtainable from the Office will be accepted for publication in the Official Journal. Such publication shall not constitute recognition that the variety is, in fact, novel."

The Plant Variety Protection Office will publish in the Journal descriptions of new varieties for which applications for protection have not been made. These descriptions should be submitted on forms furnished by the Office together with any supplemental information that the breeder may consider important. The Plant Variety Protection staff will edit the varietal descriptions with the author's concurrence.

The varietal description of the 'Knight' pea appearing in this issue may be used as a guide or format in describing varieties. These varietal descriptions will be published in the Official Journal quarterly.

Publication of a description in the Journal is not an endorsement of the novelty of a variety.

Descriptions received of newly released varieties for which applications for protection have not been made:

Pea (Pisum sativum L.)

'Knight' Garden Pea

G. A. Marx (1), R. Provvidenti (2), and R. Sandsted (3)

The New York State Agricultural Experiment Station, Cornell University, announces the release of a garden pea variety called 'Knight', developed especially for fresh market and home garden use.

### Origin and breeding history

The initial crosses of the complex pedigree from which 'Knight' (B974-157) was derived were made in the late 1950's. 'Achievement' and 'Progress No. 9' (Agway strain) served as sources of large pods; whereas, several different breeding lines provided disease resistance,

### Variety description

'Knight' is a dwarf, early, large-podded variety of the 'Progress No. 9' class. Compared with 'Progress No. 9', 'Knight' flowers and matures 1-2 days earlier, is more vigorous and has greater vine

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- (1) Professor, Seed and Vegetable Sciences, Geneva, New York.
  - (2) Senior Research Associate, Plant Pathology, Geneva, New York.
  - (3) Professor, Vegetable Crops, Ithaca, New York.

United States Department of Agriculture  
Agricultural Marketing Service  
Plant Variety Protection Office, Rm. 205  
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FIRST CLASS

length (38-53 vs 30-41 cm). First flowers appear on node 8 or 9 and the growth habit is determinate. The large pointed pods, borne singly at each node, are slightly longer (7.6-10 vs 6.3-10.2 cm), somewhat narrower (1.6-1.9 vs 1.9-2.2 cm), and usually better filled (5-8 vs 3-8 peas/pod) than those of 'Progress No. 9'. The edible quality and color of the peas are comparable with the other varieties of the group but the average "berry" size of 'Knight' is somewhat similar. The dry seeds of 'Knight' weigh about 250 g/1000, are wrinkled and green.

'Knight' is distinct in its class by being resistant to pea enation mosaic, bean yellow mosaic, powdery mildew, and Fusarium wilt race 1.

Exhibit C Forms

These Exhibit C (Objective Description of Variety) forms are available from this Office upon request:

Agrotricum	Eggplant	Rice
Alfalfa	Fescue	Rye
Barley	Lettuce	Ryegrass
Bean	Lima Bean	Safflower
Beet/Chard	Marigold	Snapdragon
Bluegrass	Muskmelon	Soybean
Calendula	Nasturtium	Sweetpea
California Poppy	Oat	Tobacco
Cauliflower	Onions	Trefoil
China Aster	Orchardgrass	Triticale
Coleus	Pea	Verbena
Corn	Peanut	Watermelon
Cotton	Pumpkin/Squash/Gourd	Wheat
Cowpea	Red Clover	Zinnia
Dahlia		